

OCCUPATIONAL SURVEY REPO ELECTRONIC PRINCIPLES

MA 044122



ANALOG NAVIGATION/TACTICS TRAINING DEVICES SPECIALIST AFSC 34155.

14) AFPT-90-341-222

OCCUPATIONAL SURVEY BRANCH

USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Analog Navigation/Tactics Training Devices Specialist, AFSC 34155.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Capt Frederick B. Bower, Jr. All are members of the Occipational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center



ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT ANALOG NAVIGATION/TACTICS TRAINING DEVICES SPECIALIST AFSC 34155

INTRODUCTION

This report summarizes the results of the administration of the Ele:tronic Principles Inventory to airmen assigned as Analog Navigation/Tactics Training Devices Specialists (AFSC 34155). The data for this report wer: collected during the period April through June 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks ref ming the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laborator, were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

ADMINISTRATION

The Electronic Principles Inventory was administered by mail to AFSC 34155 airmen worldwide. Responses from 78 individuals represented 81 percent of the total of all AFSC 34155 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

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TABLE 1
EPI SUBJECT AREAS

SEQUENCI OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
1	MATHEMATICS	A1	2
	DIRECT CURRENT AND VOLTAGE	A15	2
3	RESISTANCE	A24	2
Δ	MULTIMETER USES	B52	3
5	ALTERNATING CURRENT	B61	2 2 2 3 4
2 3 4 5	INDUCTORS AND INDUCTIVE	B67	
	REACTANCE	30,	4
7	CAPACITORS AND CAPACITIVE	C92	
	REACTANCE	0 7 2	5
8	TRANSFORMERS	C128	6
9	MAGNETISM	C171	7
10	RCL CIRCUITS	D185	8
11	SERIES AND PARALLEL RESONANCE	D229	
	(TIME CONSTANTS)	OLLY	10
12	FILTERS	D239	10
13	COUPLING	E261	11
14	SOLDERING	E273	ii
15	RELAYS	E295	12
16	MICROPHONES	F314	12
17	SPEAKERS	F327	13
18	OSCILLOSCOPES	F342	13
19	SEMICONDUCTOR DIODES	G354	13
20	TRANSISTORS	G404	15
21	TRANSISTOR AMPLIFIERS	G428	16
22	SOLID-STATE SPECIAL PURPOSE	4120	
	DEVICES	H477	19
23	POWER SUPPLIES	H483	19
24	OSCILLATORS	H512	19
25	MULTIVIBRATORS	1539	20
26	LIMITERS AND CLAMPERS	1555	21
27	ELECTRON TUBES	1565	21
28	ELECTRON TUBE AMPLIFIERS	J609	
20	AND CIRCUITS	0003	22
29	SPECIAL PURPOSE ELECTRON	J616	
	TUBES	0010	23
30	HETERODYNING, MODULATION, AND	J632	
	DEMODULATION	0000	23
31	AM SYSTEMS	K638	23
32	FM SYSTEMS	K666	24

TABLE 1 (CONTINUED)

EPI SUBJECT AREAS

SEQUENCE OF	CUDIECT ADEA TITLE	BEGINNING ITEM	GPSUM
SUBJEC AREAS	SUBJECT AREA TITLE	NUMBER	PAGE NUMBER
33	NUMBERING SYSTEMS	K685	25
34	LOGIC FUNCTIONS	L695	25
35	BOOLEAN EQUATIONS	L708	26
36	COUNTERS	L733	27
37	TIMING CIRCUITS	M757	27
38	USE OF SIGNAL GENERATORS	M769	28
39	MOTORS AND GENERATORS	M779	28
40	METER MOVEMENTS	N808	29
41	SATURABLE REACTORS AND	N818	
	MAGNETIC AMPLIFIERS		29
42	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	0845	30
44	PULSE MODULATION SYSTEMS	0875	31
45	ANTENNAS	0914	32
46	TRANSMISSION LINES	P953	34
47	WAVEGUIDES AND CAVITY	P984	
	RESONATORS		35
48	MICROWAVE AMPLIFIERS AND	P1034	
	OSCILLATORS		37
49	REGISTERS	Q1110	39
50	STORAGE DEVICES	Q1117	40
51	DIGITAL TO ANALOG CONVERTERS	Q1126	40
52	PHANTASTRONS	Q1140	41
53	SCHMITT TRIGGERS	R1141	41
54	CABLE FABRICATION	R1144	41
55	INPUT/OUTPUT DEVICES	\$1146	41
56	PHOTO SENSITIVE DEVICES	\$1149	41
57 '	SYNCHRONOUS VIBRATIONS	\$1150	47
58	(CHOPPER CIRCUITS) INFRARED	T1150	41
		T1159	41
59 60	LASERS DISPLAY TUBES	T1186	42
61	PROGRAMMING	T1220	43
62	DB AND POWER RATIOS	U1234	43
02	DE AND POWER RATIOS	U1255	44

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

PERCENT OF SAMPLE
5
13
10
41
20
3
8
100

Total Assigned - 96 Total Sampled - 78 Percent Sampled - 81%

PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the eight selected groups identified for this report. Pages 2-41 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Alternating Current (p. 4) and Power Supplies (p. 19) to low in areas such as FM Systems (pp. 24-25). Additional AFSC 34135 data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION DATA FOR SELECTED GHOUPS. IN THE SAIXS CANEER FIELD.

REPORTS ON THE PULLUATING GROUPS BENE HEALTHING

78 MF MBE 93.	ST MEMBERS.	II MEMBERS.	TO MEMBERS.	B REMBERS.	32 MEMBERS.	I O MEMBERS.	Z MENBERS.
CONTAINING	CO.TAINING	CONTAINING	SNINI TOO	CONTAINIRG	OUL AINING	3212141200	CONTAINING
	TONED IN CONUS	IONED OVERSEAS	GNED TO ATC	D TO 11C	5 TO SAC	2 TO TAC	D TO USAFE
34155	14155 STAT	14155 STAT	34155 1551	3491584 851	155 ASSIGNE	155 45516NE	155 ASS1 GNE
KAEN DAFSC 34155	TATE STATES STATE	CHIN DAFSC 14155 STAT	1854 24155 34155 4551	34155 ASS160	1 CAFSC 14155 ASSIGNE	134155 45516NE	N DAFSC 34155 ASSIGNE
ALL AIRMEN DAFSC 34155	TATE STATE DAFAC 14155 STATE	ALL ATRIES DAFSC 14155 STAT	ALL ATPMEN DAFSE 34155 ASST	ALL ANN DAFSC 34155 ASSIGNE	ALL ANN CAFSC 14155 ASSIGNE	11 ANN DAFSC 34155 ASSIGNED	ALL AMN DAFSC 34155 ASSIGNE
			SPC 104 ALL AIRMIN 0455C 34155 4551				SPCIOB ALL AM DAFSC 34155 ASSIGNED TO USAFE
560101	20100	SPCIDS	201045	50106	SPC10A		. SPC108
	20100	Service Services	101 Jes - 111 1101	50106	ACIDAS - STITE	101743 - CPC107	IDENTITY . SPCIOS

TASK GROUP SUMMANY PERCENT MENGENS PERFORMING

		MATHEMATICS																			DIRECT CURRENT AND VOLINGE							2016174102	RESISTANCE						
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S.P.C.	,	ś	63	7	0	13	25		-	0 0	9 9	0	25	6	0	100	- 10	100	5	·*,	00.	7 ~		3.6	,	5	00	001	100	1,	100		100	2	
5 to 0	901	3	0	7.7	9	-	0	4	0 -	7 ~	n 6	70	26	?	0.5	100	0	100	52	52	,	- 3		16	0.0	s	63	001	100	31	0		5	0	
5PC 105	3	8	13	25	25	0	C		0 1	0 -		0	a	0	7	e e	J	e e	0	3	0	0 0	2 -	100	75	50	æ	æ,	8	0	75		e0	75	
30	96	0	10	20	0.0	01	0 1	3.0	30	2.0		2	2.0	01	0,	100	0.0	100	30	7	0	0 0	0.00	00	0.5	0	0.	0.6	00	0	0		200	0	
5 P C	4.1	a.	5 5	36	3.5	0	0	0		23		2	36	27	55	100	27	100	0	•		, ,	. 0	100	001	13	100	001	100	20	100	2	100	100	
5 P.C.	06	23	5	35	53	2	13	0		- 4		0	2.1	2	5	66	23	00	51	7			21	96	6	r 10	90	10	65	32	0		6	90	
SPC 101	9.0	\$	20	37	53	15	<i>-</i>			7 3	· a	0	54	<u>r</u>	7	66	55	0	•	- 0		2 0		96	0	2 9	0	16	65	32	0		96	0	
DY-15K	A 1 A1-01 IN TOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS METERS OR DSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLEY OR ATTENUATE VOLTAGE, RESISTANCE, ETC+, BY POWERS OF ID.	A 2 A1-U2 DO TOU USE PUBLICATIONS, SUCH AS A TECHNICAL CHOERS ON MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU TO MULTIPLY OR DIVIDE BY A POMER OF 10 BEFORE YOU CAN APPLY THE INFURMATION FROM THE PUBLICATION, IN A USEFUL WAY	AI-03 DO YOU REARRANGE AND SOLVE FOR-ULAS O	41-0" DO TOU CALCULATE THE SQUARE ROOT OF A	5 A1-05 DO YOU SOLVE FOR UNKNOWN	OU TOU CONVENT NUMBERS TO LOGARITHMS.	7 AI-UZ DO YOU USE LOGENITHM TABLE	RAILORATIONS.	3 1 4 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ALTER OF YOU PERSONN CALCULATIONS	A COLOR DE LA CALLACTE CALCALANTE LA CALLACTE DE LA	SINE, COSINE, OF TANGENT.	12 AT-12 DO TOU DETERMINE AREAS OF PLANE FIGURES.	AI-13 DO YOU SOLVE ON USE SIMULTANEOU	AI - 14 DO TOU SOLVE ON USE PROPORTIONS.	A2-01 DO YOU USE THE TERM VOLTAGE OR YOLT (VI.	A2-02 DO YOU USE THE TERM ELECTROMUTIVE P	42-03 DO 100 USE THE TERM	A2-04 DO 100 USE THE TERM	AZTUS DE TOU USE THE TERM DINE.	21 42-05 00 000 050 140 1504 APPER	42-U8 DG TOU USE THE TERM	23 42-09 UC 10U USE THE TERM PROTO	43-01 DO YOU WORK #1TH HESISTOR		26 43-03 00 100	13-C4 00 400	A3-05 DO YOU CHECK OHMIC VALUE	A3-00 DO YOU REMOVE OR REPLACE	30 43-07 00 TOU USE OF REFER TO TEFFERATURE CUEFFICIENTS FOR	31 A3-US DO TOU USE OF REFER TO REGISTOR STREETS SUCH AS FIXED	RESISTOR STABOLS ON TAPPED RESISTOR STABOLS.	32 43-09 DO TOU IDENTIFY OR CLASSIFY THE RESISTORS YOU HORK WITH AS CLARGON, FIXED WIRE, SLIDE TAP, PHEORIET, OF	 33 53-10 DO TOU USE RESISTOR COLOR CODES MHICH INDICATE OMMIC	

TASK GROUP SUMMARY PERCENT NEMBERS PENFORMING

																						STORY COTTONITY WITH	MULITALIER USES			
20	100	7	.э	100	001	30	100	9.0	001	3.0	100	25	0.5	001	3	100	9.0	5.0	100	200	001	100	25	200	.5	100
101	,	3.1	ī	100	100	15	20	96	7	7.5		75	7	7		40	75	w	100	9	100	•	•	000	2	100
001	•	•	9	100	18	12	15	•	15	12	3.5	1.5	8	15	12	25	3.6	. \$	00	000	100	•	7	4 0	•	100
201	2.5	3.9	2	75	25	25	52	25	25	25	25	25	3.5	25	25	25	3	25	a	c c	6	a	0	~ a		8.8
501	0	5.0	10	100	0.9	7	7	30	20	9	9	30	20	0.4	•	0	30	2	2	0 -	100	٥	0	300	10	100
103	100	•	2.7	100	100	82	001	5.5	100	8.2	160	7.3	55	•	7.3	16	\$5	3,	-		004	0	•	100		100
102	2	2.6	2	41	75	9	9	*	1.1	62	0	9	?	7.2	6.3	•	0	:	40	, ,	00			4 6	1	0
191	10	97	*	47	18	9 9	12	•	7.4	5 9	12	5.	;		50	17	0.	:	10	• •	*	s	•	6.5	10	:
LY-15K	34 A3-11 DO YOU USE RESISTOR COLOR CODES +HICH INDICATE	35 ASTACLE TOU USE RESISTOR COLOR CODES #HICH INDICATE	TAILUME MAILE 36 43-13 DO TOU MANE DECISIONS IN MAICH YOU MUST DETERMINE HOME THO OR HORE BAITERIES HUST BE CONNECTED TOLETHER TO	R TO THE SCHEMATIC SYMBOLS	REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SMITCHES 38 A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SEMIES	RESISTIVE CIRCUITS. 39 A3-16 DO 100 CALCULATE TOTAL CURRENT FOR SEMIES RESISTIVE	CIRCUITS. 49 A3-17 DO TOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES	RESISTIVE CIRCUITS. 41 A3-18 DO YOU CALCULATE POWER DISSIPATION FOR SERIES	RESISTIVE CIRCUITS. 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PAPALLEL	RESISTIVE CIRCUITS.	RESISTIVE CIRCUITS.	PARALLEL RESISTIVE CINCUITS. 45 A3-22 DO TOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR	SERIES PARALLEL RESISTIVE CINCUITS.	PARALLEL RESISTIVE CIRCUITS. 47 43-24 DG YOU CALCULATE TOTAL MESISTANCE FOR PARALLEL	OTAL	CINCUITS.	PANALLEL RESISTIVE CIRC	PARALLEL RESISTIVE CIRC A3-28 DO YOU CALCULATE P	RESISTIV		SI-OS DO TOU MEASURE VOL	AI-UN DO TOU MEPAIR VOLT	BI-05 DO YOU REPAIR ANNE	SA BILDE DO YOU MEASURE CORRENT.	81-08 DO 700 DIRECTLY US	COULCHB. 60 B1-UP DO TOU READ SCHEMATICS.

PCT MBAS KESPUNDING TEST BY SELECTED GRPS

TASK GROUP SUNNARY PERCENT RENGERS PERFORMING

25			ALTERNATING CURRENT							INDUCTORS AND			INDUCTIVE REACTANCE																	
10 10 10 10 10 10 10 10	365	108		100	100	2001	200	95			2 2	200	5.0	Sc	o :	o 1	0 0	D.	2	0	o	Q	2	-	3		200		S .2	
### 100 TOU USE ON LEER TO THE TEN PERKET NOTINGE	300	101		1.00	2	x 0	2 40	6	63	T .	7	, ,	20	0,0	6 1		52	52	-	5.2	25	4	7	;	0,0		, ,			7
10 10 10 10 10 10 10 10	SPL	001	4	47	15	100	2 *	a	12	S.	6 a	. 0	0.5	5,3	0	20			<u>•</u>	22	0	2.2	2.5	3.4	;	7			2 .	36
### 100 TOU USE ON WEREN TO THE TER. EFFECTIVE VOLTAGE	SPC	501	63	a E	34	25	2 2	75	69	52		25	200	13	a	C 0	o c	a	0	u	0	0	0	C	13		5 E	1	200	3.5
SPECIAL 0.0 TOU USE ON LEFER TO THE TERN EFFECTIVE VOLTAGE 0.0 10.0 10.0 10.0 USE ON LEFER TO THE TERN EFFECTIVE VOLTAGE 0.0	245	*0-	10	06	10	00	0 0	10	9	0 9	30	7.0	0	20	50	200	207	50	30	02	2	70	20	20	7	0	200		0, 0	20
101 10 10 10 10 10 10 1	SPC	103	5		0	J .	27	82	28	90 :	0 5	73	55	45	0	20 0	0 0	•	o	•	•	<u>.</u>	9	-	99		17		0 5	13
12-01 DD 700 USE UN LEER TO THE TERN EFFECTIVE VOLTAGE 12-02 DD 700 USE UN LEER TO THE TERN FFAK TO PEAK VOLTAGE 12-03 DD 700 USE UN LEER TO THE TERN FFAK TO PEAK VOLTAGE 12-03 DD 700 USE UN LEER TO THE TERN FAKEURATH 12-03 DD 700 USE UN HEFR TO THE TERN FAKEURATH 12-03 DD 700 USE UN HEFR TO THE TERN FAKEURATH 12-04 DD 700 USE UN HEFR TO THE TERN FAKEURATH 12-04 DD 700 USE UN HEFR TO THE TERN FAKEURATH 13-04 DD 700 USE UN HEFR TO THE TERN FAKEURATH 13-04 DD 700 USE UN HEFR TO THE TERN FAKEURATH 13-04 DD 700 USE UN HEFR TO THE TERN FAKEURATH 13-04 DD 700 USE UN HEFR TO THE TERN FAKEURATH 13-04 DD 700 USE UN HEFR TO THE TERN FAKEURATH 13-05 DD 700 USE UN HEFR TO THE TERN FAKEURATH 13-05 DD 700 USE UN HEFR TO THE TERN FAKEURATH 13-05 DD 700 USE UN HEFR TO THE THE THE THE THE 13-05 DD 700 USE UN HEFR TO THE TERN FOR THE THE THE 13-05 DD 700 USE UN HEFR TO THE TERN TO THE THE THE THE 13-05 DD 700 USE UN HEFR TO THE THE THE THE THE THE THE 13-05 DD 700 USE UN HEFR TO THE	345	101	7.	0	11	7.5	0 0	18	0	7 .		200	4.7	9	5.0	77	0	-	•	•	15	3.4	7.7	~	0,		0 0		* 0	35
12-01 00 TOU USE ON WEER TO THE TERN PERECTIVE VOLTAGE 62-02 00 TOU USE ON WEER TO THE TERN PERECTIVE VOLTAGE 62-03 00 TOU USE ON WEER TO THE TERN PERECTIVE VOLTAGE 62-03 00 TOU USE ON WEER TO THE TERN PERECTIVE VOLTAGE 62-03 00 TOU USE ON WEER TO THE TERN PERECTIVE 62-05 00 TOU USE ON MEER TO THE TERN PERECTIVE 63-01 00 TOU USE ON MEER TO THE TERN PERECTIVE 63-02 00 TOU USE ON MEER TO THE TERN PERECTIVE 63-03 00 TOU USE ON MEER TO THE TERN PERECTIVE 63-03 00 TOU USE ON MEER TO THE TERN PERECTIVE 63-03 00 TOU USE ON MEER TO THE TERN PERECTIVE 63-04 00 TOU USE ON MEER TO THE GARACT 63-05 00 TOU US	345	101		0	7.1	•	4 0	14	15	7 3	1 7 7	70	30	t	* .	2 -	0	5	<u>*</u>	æ	-	3.2	13	2.3	ī		7 7		· .n	70
								1																						

						CAPACITORS AND				CAPACITIVE REACTANCE																														
296	E 0	200	101	000	200	2 0	000	200	100	2.5)	J		100	0	100		25	100	100	001	100	3	0	,	c		0	20		0	o		2	0	;	6.5		2	
3	101	001	•	7	4	9 4	0	0	001	20	C	ć	2	100	13	9		26	50	100	6	100	•	0		•		1,	0			35		Š	•	1	S		20	
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3 5	102	ac ac	2	25		1 0	0 0	9	a	0	C	1,	n	63	13	20		13	52	75	æ	e.	25			13		-3	ď		45	5.		3.0	36		13		-	
345	50	00	a	204	100	2 0	0 1	10	0	50	٥	0	2	0	30	9.0		30	0,	100	100	80	50	20	2	0		20	0.7		0	10		90	10		30		30	
1	103	0	4.00	2 4	1	7 .	000		001	7	o	5		001	0	10		55	55	100	82	8.2	0	•		•		•	97		95	12		17	34	:	17		11	
245	701	16	0		14	0 0		00	0	56	٣	40		0	61	7.8		9	•	*	* 0	7	-3	•		0		1.3	0		36	34		•	3	:	34		3.1	
345	101	•	ò	4 12	, ,		n E	0	•	67			•		8	10		4.7	20	6.5	* 4	8.5	•	•		10		?	÷		0 +	35		\$,		35		32	
	DY-15K	C 92 CI-01 DU YOU WOHR AITH CAPACITORS OR CIRCUITS CONTAINING	CAPACITURS 1	DO TOO INSPECT CAPACITOR	20 11-03 DO 100 CLES CA 4011073	45 (1-04 00 100	96 C1-05 DO 100 TEST CAPACITORS.	97 CI-CA DO YOU DISCHAPGE CAPACI	94 CI-07 DC TUD KENOVE ON MEPLAC	99 CI-UR DO YOU USE OR MEFER TO DISTNIBUTED CAPACI	SE ON REFER TO	A DIELECTRIC.	משנה מי שבור ומ בשנים: מוניים: שניים מי מיים	A TOTAL DE YOU USE DR RESER TO CARACITANCE.	CI-12 DO TOU USE OR REFER TO L	104 C1-13 00 700 USE OR REFER TO	CAPACITORS	105 CI-14 OF YOU USE OR REFER TO	A CI-15 DO YOU USE OR REFER TO CAPACITOR C	107 C1-16 DO TOU WORK #17H CAPACI	TOR CI-17 DO YOU WORK AITH CAPACITORS IN AC CIRCUITS	109 CI-18 DO YOU WORK MITH CAPACITORS IN	C 110 CI-19 DG TOU MORK WITH CAPACITORS IN DON'T REMEMBER MAICH	CINCULTS CINCULTS CINCULTS CINCULTS CINCULTS CINCULTS CINCULTS CINCULTS	CAPACITORS USING FORMULAS	O THE GENERAL RULE THAT	CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE	THE GENERAL RULE THAT	THE DIELECTRIC THICKNESS C 114 C1-23 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	IN SERIES	C 115 CI-24 DE TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITUMS	IN PARALLEL IN CI-25 DG YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	IN SEMILS-PARALLEL CINCUITS	TAE GENERAL RULE THAT		SECULIAR OF SECULIAR	USE OF REFER TO THE GENERAL BULE THA	CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO	C 120 C1-24 DO TOU CALCULATE CAPACITIYE REACTANCE	

PCT MBRS RESPONDING TEST BY SELECTED GRPS

TASK GROUP SUMMANY PENCENT MEMBERS PERFORMING

101 102 103 104 105 100 107 104	68 55 70 25 72 81 90 91 80 75 97 68 67 100 60 63 94 65 68 100 80 86 94 91 100 80 86 94 7 0 10 25	0 58 97 94 100 28 72 38 50 50 50 50 50 50 50 50 50 50 50 50 50	7 0 0 13 64 1000	21 9 10 13 3 13 7 28 18 10 13 31 44	12 12 9 0 13 9 25 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	86 85 91 60 63 91 84 100 76 70 91 70 63 78 81 100 70 74 62 50 50 86 75 100 38 36 47 26 50 38 56 50 54 53 45 30 38 60 63 100	90 90 91 70 63 97 105 105
95	085 085	80 0	S 2	USING 2		6	\$ 570
Sx	SINTOH (VARIABLE) CA DLYIIC (FIXED) CA FIXED) CAPACITOH FIXED) CAPACITOHS FIXED) CAPACITOHS C (FIXE) CAPACITOHS	RANSFORMERS IN YOUR PRESENT INSTORMERS SFORMERS SFORMERS	DAPLETE TRANSFORMER PAR	E THE COEFFICIENT OF CONERS RATIOS FOR TRANSFORME	DANCE INTERACTIONS F THANSTONNERS OF TRANSFORMERS OF TRECENERS THE THANSFORMERS OF TRECENERS THE THANSFORMERS THANSFORMERS THE THANSFORMERS THANSFOR	ORMERS FOR STORTED WINDINGS BY ORMERS FOR STORTED WINDINGS BY STANCE OF TRANSFORMER MINDINGS STORMER MAS A STEP-UP OR STEP	SFORTER SCHEMATIC

PET MBMS RESPONDING TYEST BY SELECTED GRPS

TASK GROUP SUMMARY REPOENT REMBERS PERFORMING

101 105 106 107 108	HZ 70 63 84 69 100	52 60 38 8e 69 10U	82 76 59 94 88 103	18 30 63 66 63 0	0 50 16 05 05 5	73 40 50 84 81 100	30 38 66 63 100	27 20 13 47 44 0	18 30 13 38 69 0	45 40 13 69 75 100	9 30 13 31 63 0	9 20 13 25 25 0	36 30 13 56 14 100	36 20 13 47 45 100	20 13 34 25	20 13 25 13	36 30 13 50 19 100			20 25 30 65 00	10 13 10 34	9 to 13 9 Ja C MAGNETISM	9 20 13 9 35 0	70	;	0 11 • 11 01 0
102	10	1	,	23	0	1.	• 5	35	0	2.5	35	7.7	?	*		3.5	36			? ;	10	5	•	2.2	92	0
101	11	*	•	* 5	20	1.3	5.8	3.6	38	9.5	33	12	;	35	17	77	7 7			0 4		ç	11	7.7	97	•
DY-158	C 152 C2-25 DU YOU MEFER TO HULLIPLE SECUNTARY-MINDINGS SCHEMATIC	100	C 154 C2-27 DO YOU REFEM TO CENTER TAP SCHUMATIC STABOLS FOR	C 155 C2-28 DU YOU REFER TO AIR CORE SCHEMATIC SYNBOLS FOR	C 156 C2-29 DO YOU MEFER TO INON COME SCHEMATIC STABOLS FOR THAUSFORMERS	C 157 C2-30 DO YOU REFER TO COMBINATIONS OF THE ABOVE SCHEMATIC	C 158 C2-31 DU YOU DETERMINE PHASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES OF THANSFORMERS USING	C. 159 C2-120 DO TOU DETERNINE OR REFER TO THE TYPE OF CORE IN	OV	USE OR REFER TO STEP-UP OR STEP-D	C 162 C7-35 DO TOU CALCULATE VOLTAGE MATTOS FOR TRAISFORMENS	163 CZ-36 DO TOU	USING TURNS RATIOS C 164 C2-37 DOES YOUR JOB INVOLVE ANY TASK'S DEALING WITH THREE	AND TAKE THE PARTY OF THE PARTY	166 CZ-19 DO YOU CLEAN OR LUBRI	167 C2-40 DO TOU ADJUST THREE PHASE	THE CALLS DO TOU TROUGHESTOOT TITLE PARSE TARKED PARSE	AND THE PROPERTY OF THE PARTY O	PARTS SUCH AS AINDINGS	C 171 C3-01 DO 400 USE OF PEREN TO PERFER TO PERFECT MEGNETS	Ca-Ca Du You USE ON REFER TO HETENTIVITY	174 6	MATERIALS C3-US DG YOU USE ON MEFER TO PERMEABILITY OF MAGNETIC	174 C3-06 00 700 USF OF	C3-07 OC YOU USE OR REFER TO MAGNETIC	FLUK FLUK DO TOU USE OR REFER TO REBER'S INFURT OF HAGNETISH

TASK GROUP SUNNAHY
PERCENT NEWBERS PERFORMING

240 250 350 350 350 350 350 350 350 350 350 3	000	51 27 30 50 54 03	26 26 27 20 13 31 35 5	20 25 18 20 13 25 44 6	82 82 82 90 63 84 81 10U		35 34 27 70 25 20 35 G RCL CIRCU	00 56 91 70 50 47 63 100	62 57 91 80 50 47 63 10U	53 53 45 60 50 47 50 0	50 51 36 80 38 53 44 0	26 25 47 20 13 24 31 0	26 26 36 20 13 34 25 0	22 14 40 13 32 10		9 6 6 7		26 17 25 26 36	22 27 60 12 24 62		30 37 36 37 63 6	15 15 18 20 13 9 25 0	23 21 27 10 13 10 53 6	15 16 0 26 13 19 19 0
	OF MAGNETISM			THE NORTH		104		*17" PCL		*ORKING MITH RCL	#17H PCL		Z			2		1	1		7 1			<u>.</u>
N2-15K	TO DOMAIN THEORY	162 (3-1) DO TOU USE ON REFER TO INC. MACHETIC POLES. LIKE POLES.		LEFT JAND THUMB HULE TO	DC YOU WORK WI	D 185 DISCOUNTY NOW USE OR REFER TO VECTORS WHEN MORKING WITH CINCUITS	10 USE OR	PLFER TO SINE MEN WORKING	CIRCUITS D. 149 DITCH DO YOU USE OF HEFER TO COSINE THEN WORKING WITH RCL	TOU USE OR MERER TO TANGENT MHEN	YOU USE OF HEFER TO BATTS FIEN BORKING	115	CIRCUITS TOU USE OR HEFER TO MAXIMUM POWER (PH)	WORNING WITH RCL CIPCUITS	ACHING WITH RCL CIRCUITS	MORKING MITH RCL CIRCUITS	ATTH PCL CINCUITS	RORALNO MITT RCL CIFCUITS	SCL CIRCUITS	STICOLES TO THE STICOLES TO TH	TO USE OF REFER TO RESONANT FREGUENCY	YOU USE OF	PARTIES OF TOU USE OF REFER TO BANDPASS REGION #HEN HORKING TO SOLUTION THE NOTICE OF THE PARTIES OF THE PARTIE	A 103 DI-19 DE FECUTS O 203 DI-19 DE FECUTS OF PEFENTO CIRCUIT & NAEN HORKING NEL CINEVITS

TASK GROUP SURHAMY PERCENT MEMBERS PERFORMING

	3 2	340	1	27.0	3 4 6	¥ 6	3 4	30	3 4 5	
	D1-13A	101	100	2	-01	102	0	101	0	
3	284 UL-20 DO YOU USE ON REFER TO TAIN CINCUITS WHEN MORKING	15	4.7	13	70	- 3	.,		6.0	
-	205 DI-21 DE YOU DETERMINE VALUES OF TRICONOMETHIC FUNCTIONS	37	35	5	0	25	20	20	3	
,	USING FORMULAS									
0	200	•	00	9	10	13	22	7.	o	
	DIAGRAMS FOR CIPCUITS	•	,					,		
3	CON DI-ZS DO, TOU CALCOLATE TOTAL IMPROANCE FOR CAPACITIVE	17	97	x -	2		3.	7.	3	
3	208 01-24 DU TOU CALCULATE PHASE ANGLES ACTREEN IMPROANCE AND	1.1	-	2.7	0	-	9	25	٥	
	RESISTANCE IN CAPACITIVE CINCUITS									
0	209 01-25 DG TOU CALCULATE TOTAL IMPEDANCE FOR SENIES ACL	53	22	7	0.1	13	52	3 6	0	
	CINCULTS	•	1.2	,	9	2	4	0	c	
,	CIRCUITS					7			,	
0	211 91-27 DC YOU CALCULATE APPARENT PONE" (PA) FON SERIES MCL	15	1.2	•	0	-	?	•	0	
0	212 D1-26 DO YOU CALCULATE TRUE POWER (PT) FOR SENIES MCL	•	2	0	0	-	•	0	0	
73	CINCUITS CINCUITS 213 D1-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SCRIES MCL	17	1.2	•	O	-	13	0	3	
	CINCUITS	. :								
3	214 DI-30 DO TOU CALCOLATE TOTAL CURRENT FOR PARALLEL ACL	~	54	•	0	7	25	n n	9	
3	215 DI-31 DO TOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL MCL	1.2	2	٠	0		•	25	3	
	CIRCUITS			,	,		(
0	214 DI-32 DO TOU CALCOLATE TOTAL IMPEDANCE FOR PAPALLEL MCL	-	-	•	20	13	•	-	0	
3	TOU CALCULATE TOTAL	5.6	20	17	30	-	5.2	3	5)	
	CINCUITS USING OHM'S LAW									
0	219 DI-34 DO YOU CALCA CAPACITORS USING CHAMETERS		10	82	00	75	- o	60 1	20	
	DI-36 DO YOU CHICK INDUCTORS IN	7.7		ر و د و) C	0 4	, ,	, ,	3 0	
	01-37 00 100		:		30	3 6	0	7	200	
0	UI-38 DO TOU USE OR REFER TO THE GENERAL PUL	•	1	0	0	13	1	•	ی	
,	TARTER O. PF B P. AND PR B PT FOR RESONANT CIRCUITS		•	•		:	•			
,	CIRCUITS		-		2				,	
3	OU USE OR REFER TO THE GENERAL RULE THA	5.4	5.2	90	3.0	en -	52	4.5	20	
	FREQUENCY FOR SERIES ACL CIPCOTS									
3	DU USE OF HEFER TO THE GENERAL RULE	23	2.5	æ	20	-	2.5	3.6	5.0	
	JARENT 15									
0	FERTHOLING FOR PARALLEL RCL CIRCUITS 226 DI-#2 DO TOU OSE ON REFER TO THE GENERAL RULE THAT HALF	23	5.4	<u>c</u>	30	-	•	;	0	
	POWER POINTS ANE AT 70.7 PERCENT OF THE PEAK					`				
0	227 DI-43 DO YOU USE OF REFER TO THE GENERAL RULE THAT	~	7	0	0	2	1.0	•	0	
0	ERAINE HOW CHANGES IN FR	* 2	*2	17	20		22	3,8	0	
	, CAPACIT									
	CIMCUITS									

		SERIES	C (TIME CONSTANT)	0	2	25	5	3				FILTERS	2	1 2	0	,	,		2	0	2		9	3.5	9	
	7 10	-	01	S	o o	23	_	2	-	9 8	•				-						56 5					
	0 -	2	10		1	33	9	•						9 7		7		0 7	•	1			,	2		
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	0 1	5	• ~	30	0	-~	0	0	0	16	2.				_	•	•			•	5			2	,	
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	10	3.0	* 2	,		• •	•	0	0.1	2				200		,			2 7 2					, ,,	2 92	
PCT MBRS RESPONDING TEST BY SELECTED GRPS TASK GROUP SUMMANY DERCENT MEMBERS PERFORMING	0x-15K	CINCUIT	OHR WITH, USE, OR REFER TO TIME CONSTANTS	DESCRIPTION TO THE WORK WITH, USE, OR REFER TO TRANSIENT	233 UZ-05 DO TOU USE OR MEFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHANGED (OR DISCHARGED) AFTER FIVE (S)	234 92-06 DO YOU USE ON REFER TO UNIVERSAL TIME CONSTANT CHARTS 235 92-07 DO YOU USE EQUATIONS OR FORMULAS TO LETERMINE CINCUIT CURRENT OR COMPONENT YOUTAGES AFTER A SPECIFIC	TIME FOR MC OR LM CINCUITS 236 NZ-05 OF YOU USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OF COMPONENT VOLTAGES TO	237 D2-09 DO TOU USE EFUATIONS OF FORMULAS TO DETERMINE COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND CAMPONENT VALUES TO MEACH SPECIFIC VALUES IN SPECIFIC	CIRCUITS REACHES ITS H	239 D3-UI DO TOU WORK WITH CIRCUITS USED AS FILTERS IN YOUR PRESENT JOB	03-02 30 YOU INSPECT FILTER CIRCL	TOU ALIGN OF ADJUST FILTER	03-05 DO YOU TROUBLESHOOT TO THE FIL	* D3-D4 D4 T84 TROUBLESH001 T0 C0HPONE * D3-U7 D6 T04 REMOVE OR REPLACE THE C	DISTURBLE TOU PENOVE OR MEPLACE FILTER CIRCUIT COMPONEN	DO YOU MORK WITH LOW PASS	13-10 00 100 40KK - 114 HIGH PASS FILT	DO TOU MORK WITH GANDPASS FILTE	D3-13 DON'T REMEMBER WHICH TYPE OF FI	03-1" DO TOU WORK #1TH L-SECTION FILT	03-15 00 100 mosk #174 1-5£C710k F1LT	SS 03-17 DON'T HER HARR WHICH TYPE FILTE	03-16 30 THE FILTERS TOU HORK WITH US	CIRCUITS 257 D3-19 DG THE FILTERS TOU MORE WITH USE SERIES-PARALLEL	CIRCUITS 258 03-20 00 THE FILTERS TOU MORE MITH USE SERIES RESONANT CIRCUITS	

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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D1-15k	259 03-21 DON'T REMEMBER MAIGH TIPE OF BASIC CIRCUIT 260 03-22 DO YOU USE EAUATIONS ON FORMULAS TO DETERMINE PROPERTIANCE OF INDUCTANCE VALUES REGUINED FON SPECIFIC	Zel EI-02 DO YOU HONK MITH COUPLING DEVICES IN TOUR PRESENT JOE Zel EI-02 DC YOU TOENTIET ON SCHEMATIC DIAGHAMS AND MELATE TO THE ACTUAL CHRONENTS ASSOCIATED WITH RC	COUPLING 263 E1-33 DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH		THANSFORMER COUPLING ZES E1-05 DG TOU TROUBLESHOOT CIRCUITS MAICH HAVE COMPONENTS	266 LI-06 DO TOU TROUBLESHOOT CIRCULTS WITCH MAVE COMPONENTS	267 E1-07 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	ZAB EL-UB DO YOU NORK AITH DIRECTLY COUPLED CINCUITS ZAB EL-UB DO YOU NORK AITH DIRECTLY COUPLED CINCUITS	CIRCUITS 270 E1-15 DO YOU WORK HITH CAPACITIVE-INDUCTIVE COUPLED		272 EI-12 DON"T REMEMBER WHICH TYPE OF COUPLING CIMCUITS	4	EZ-02 DG 400 SELECT TYPE OF 50	E2-63 00 100	STEIP INSULATION	EZ-DA DO TOU CONNECT OR DISCONNECT HEAT	EZ-CZ CO YOU BEND ON SHAPE WI	San EZ-DR DU TOU TOT TIMES	12-10 DU TOU TIN SOLDERING IRON TIPS	EZ-11 DO TOU CLEAN SOLDERING !	F2-12 DO TOU CLEAN ELECTRICAL	12-13 00 100 11h OR PHE-TIN CO	EZ-14 DO YOU INSPECT SOLDERED CONT	287 CZ-15 DO TOU DESOLDER CONNECTIONS BY MICHING RECURERING 289 FZ-16 DO TOU DESOLDER CONNECTIONS USING NACOUM DESOLDERING	ST TARGOLD THE HEY OF	FOR KENDAAL

TASK GROUP SURNANT PEREENTING

												RELAYS																					MICROPHONES											
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SPC	105	100	100	100	100		ı	33	6	75	30	2 5	T	50	6	25	52	52	50	76	1	75	4	3	63	7.		15	1	,	24	3.8	60	63			52	-	25	3.6	-	7	¥ .	-
SPC	101	100	00	96	96		30	04	10	0.8	10	30	90	20	30	0	10	0	0	9		0.0		3	04	1	0	9	3	2	0	50	0.5	30			50	0	20	0	50	9	07	0
SPC	103	100	100	001	100		100	6	16	160	160	9	82	13	7.3	•	•	0	36	73		7.3	7.		7.3		,	6	-		55	55	0	36			•		27	\$	0 !	17	•	3
396	107	10	90	5	0		6 3	45	62	8	6	5.4		*	20	1.2	•	2.1	28	10		9,	7.8		76	75	•	19	14		5.0	. 1	0 9	5.4			2	20	21	-		7 1	87	1
SPC	101	63	0	5	0		5	0	6.9	0	50	5.4	15	5.1	53	13	11	22	?	14		11	7.8		18	1,	2	æ	19	:	2.0		42	2			7.5	0	23	57	0	- :	7	
	VT-15k	E2-19 DO YOU MAKE MARBHIRE CONNE	DO TOU MAKE PRINTED CIFCUIT BOARD CONNECTIONS	CARTING TOU SOLDEN PASSIVE COMPONENTS SUCH AS HESISTORS OF	THE ROLL OF THE SOURCE STATE CONTROLL SHOW AS SOUTH STATE	DIGDES ON THANSISTORS ON PRINTED CITY	295 E3-C1 DO YOU BORK MITH RELATS ON YOUR PRESENT JOR	13-02 DG 100	13-03 DC TOU	13-04 DC YOU	13-35 DE YOU REHOVE OR REPLACE COMPLETE	00 00 vo.	13-07 DO YOU THOUSTESHOOT RELATS	DO YOU STANIGHTEN RELAY	DO YOU PERFORM TASKS ON RELAY	TOU PEHFORM TASKS ON RELAY	PENFORM TASKS ON RELAY	DO YOU PERFORM TASKS ON HELAY	DO YOU PERFORM TASKS ON RELAY		1, NORMALLY OPLH (NO) SCHEMAT		FRAME OF YOU US. ON PERSON TO CITCLE POINT ACHIEVE	STMBOLS FOR RELATS	R TO DOUB	(UPDI) SCHEMATIC SYRBOLS FOR RELAYS	400000000000000000000000000000000000000	E3-19 DO TOU CHECK ELECTRICAL CONTINUITY OF COILS BY	PERSONAING MESSENT JOB TO YOU PERSONA AND TASKS DEALTH.	AICROPHOMES	FI-UZ DO YOU INSPECT HICROPHONES	FILLUS DO YOU CLEAN MICHOPHONES	317 FI + C4 DO YOU OPERATE HICHOPHOMES	FI-US DO YOU TROUBLESHOOT AS FAR AS CHECKING	OT TROULLESHOOT DOWN TO	PARTS ON PICHUPHONES	FI-Ce DO YOU TROUBLESHOOT DOWN T	FI-07 DO YOU MEHOVE ON REPLACE C	FI-DE DE YOU PENOVE OR REPLACE M	DO YOU PEPFORM TASKS OF	FI-10 DO TOU PERFORM TASKS ON	DO TOU PERFORM TASKS	NO SYST HEOLING TO THE	TO THE THE TANK OF THE TANK OF

TASK GROUP SURMARY PERCENT MEMBENS PERFORMING

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0	107	5.1	1		30	,	7		1 5	*		2	•	-	•	•	1	-		1	7 9	:	0		•	0			1 0	2			•	. 4	,	6 6	20		0	0	6	1.2		-			31	
	50:	5.3		7	-	20	45		13	*		-	5	-	•	5	*	•	•	1	0	:	•		95	0					20		•	. 4	;	•	9.5		•	76	*	0		7			-	
	0x-15x		THE SPEAKERS	25-07 00 100	001 00 50-74	F2-U* DO 100 OPERATE SPEAKERS	AS CHECKING	CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COPPOSENT	332 F2-30 DG YOU TRUUBLESHOOT DOWN TO SPEAKER PARTS	S - OT DO YOU BELLOVE OR MEDIACE COMPLITE SP	3 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	TENE DO TOO TENOTE ON TELLACE STEAKEN TA	FILLY DO TOU PERFORM ANY TASKS ON SPLAKER	FR-10 DC YOU PEHFORM ANY TASKS ON SPLANER	TOU PERFORM ANY TASKS ON SPLAKER	F2-12 DO YOU PERFORM ANY TASKS ON SPLAKER	FZ-13 DO YOU PEHFORM ANY TASKS ON SPEAKEN	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE TO THE PROPERTY AND THE PARTY OF THE PAR	TATELO CO. TOTAL TANK TANK ON STERNER SOT INCH LONG	342 F3-UT DO TOU USE USCILLOSCOPES IN TOUR PRESENT JOB	בשבת הם נות משל השכורומשנמעוני ומ בניינית	344 F3-U3 DO TOU USE OSCILLOSCOPES TO PEHFORM ALIGNMENTS OR	AUJUSTRENTS	345 F3-34 DO YOU USE OSCILLOSCOPES TO TRUUBLESHOOT ELECTRONIC	. 93003000000	ביים של היים מביים מביים ביים ביים ביים ביים ביים	25 00 100 05E 05E 11E 05E	SOCKET BASES OF STORESTONES OF STORESTONES OF STORESTONES	Trulator proper	SELL NO ADMINISTRAL STAFF OF SIGNAL POLICY STAFF OF SIGNAL PROPERTY OF	TATE SOURCE NEW TO COLUMN TO THE ACT AND T	14: Family on the Use of the Control of the Actual of the Control	10 10 10 10 10 10 10 10 11 15 10 10 11 15 10 10 11 15 10 10 11 15 10 10 10 10 10 10 10 10 10 10 10 10 10	SIGNALS AFTER FIRST ANJUST	TON OC SERVICE OF STREET OF STREET	ALTH SENICORDINATOR		100	61-63 DO TOU	41-U4 DO YOU	41-US DO YOU USE ENERGY LEVEL OF	510010	DE CTARACTERISTIC	TOJETHER WITH VALUES OF FORMAND AND HEVERSE BIAS VOLTAGE,	145 -ES!	160 GI-UT DO TOU COMPUTE FUNNARD OR REVENSE BIAS RESISTANCE FOR	010065

TASK GROUP SUMPARY PERCENT PEMBERS PERFORMING

		,00		,00		9	197	à	4	
	X2T-Y0	101	107	103	10		106	107	100	
7	361 GI-08 OF YOU USE ON REFER TO THE GENERAL RULE THAT		0	7.3	0	6.3	2.6	0	7	
~	36.2 GI-09 DO TOU JUENTIET SENICONOUCTOR DIODES AS OPPOSED TO OTHER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, BASED ON	9	in in		70	a.	C C	ω το	S.	
~	363 SI-18 STEERS TO WIND YOU CETEMINE THE GENERAL SET OF 1-12 TO THE SERVER	-	5.	•	30	13	2	-	•	
~		?	5	29	7	63	9	•	701	
"	365 GI-12 DO TOU USE OF HEFER TO DIODE CULOR CUDING	,	:	5	0,	38	-	00	2.0	
~	61-13 DC 100	٠	٠	•	01	0	٥	a	3	
~	USL ON REFER	c	^	٠	0.1	٢.	c	٥	•	
~	USE OF REFER	8.5	8 9	29	20	1,5	(S.	,	5.0	
~	364 GI-16 DO TOU USE OR REFER TO KINETIC ENEWGY OF AN ELECTHON	uo.	1	٠	10	7	۰	4	٥	
~	č	•	•	٠	01	7	٥	2	Э	
-	ELECTRON MOVING IN ORBIT 371 GI-13 D. TOU US. OH HEFER TO MEASUMENENTS OF REVERSE BIAS	0	4		20	50	11	4	35	
~	RESISTANCE 372 GI-19 DO TOU USE OF REFER TO NUMBER UF ELECTRONS IN A	0	۰	•	0	0	۰	-0	2	
7		D	1	٠	01	13	0	a	o	
	AN OMBITING ELECTRON 374 GI-21 DO TOU USE OF REFER TO FORBIDDEN ENERGY LEVELS OF AN	٥	•	۰	01	o	0	-0	0	
-	375 GI-22 DE TOU USE OR PEFER TO VALENCE ELECTRONS (THOSE IN	•	•	٥	0	13	•	7	3	
-	376 GI-23 DC TOU USE DM PEFER TO ATOMIC TUMBER (TOTAL NUMBER OF	10	1	•	01	а	0	7		
_	377 GL-24 DO YOU US ON MEFER TO STRBOLS ON THE DIODE WHICH	00	6.0	100	20	T.	7	*	201	
1	178 GI-25 DO RED OF DIOLE WHICH MATERIALS ARE USED IN THE COLUMN OF SILFON	1.0	26	9	01		;	1	0	
-	374 GIT-46 DO TOO HEED TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE TEMPERATURE COEFFICIENTS OF MESISTANCE (AS TEMPERATURE	3.6	:	t.	30	13	3.	20	3.0	
-	INCREASES RESISTANCE DECREASES) JBO 01-27 DO YOU USE ON REFER TO PM JUNCTION DIODE CHARACTERICIE CHERES. SUCH AS VOLTAGE - CURRENT	7	•	2.3	0.7		-	5.2	٥	
-	1 - 0 0	7.	*0	20	0	a T	9	-	001	
-	TOU USE OF HEFER TO VALENCE BAND IN SEP	20	1	٠	2	7	٠	a	0	

TASK GROUP SUMMANY PERCENTING

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	DY-TSA	101	105	103	,	105	104	101	100	
,	383 G1-30 DO YOU USE OF HEFER TO FORBIDDLY BANG IN	90	^	o	0.1	7	0	a	,	
,	384 GI-31 DO TOU USE OR REFER TO CONDUCTION BAND IN	20	~	2	0	13	•	e	9	
,	385 61-32 DE TOU USE ON REFER TO COVALENT BONDING IN	•	٠	,	0.	~	٥		0	
9	SENICONDUCTOR HATERIALS 356 GI-33 DU TOU USE ON REFER TO ELECTHON-HOLE PAIR CREATED IN	0.1	0	,	0.1	7	•	-	a	
9	SENICONDUCTORS 347 61-34 DO YOU USE ON NEFER TO ELECTRON FLOW ON HOLE FLOW IN		•	•	20	13	•	25	o	
5	SEMICONDUCTORS 388 41-35 DO YOU USE ON REFER TO DOWOR IMPURITY IN	0.1	2	9	91	13	•	7	э	
9	SEMICONDUCTURS 35Y 61-36 DV TOU USE OR KEFER TO ACCEPTOM IMPURITY IN	•	•	3	0.1	O	٠	~	D	
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, ,	61-39 DO YOU USE OR REFER TO MAJORITY CARRIERS IN	17	•	8	50	-3	•	13	2	
.,	SEMICONDUCTORS 393 61-40 DO TOU USE OF HEFER TO MINORITY CARRIERS IN	1.1	•	œ <u>-</u>	2.0	-	•		Э	
9	SEMICONDUCTORS 394 61-41 DO TOU USE OF REFER TO JUNCTION RECOMBINATION IN	01	0.1	>	0.1		•	13	3	
,	SEMICONDUCTORS 395 61-42 DO YOU USE ON REFEM TO DEPLETION REGION IN	01	07	0	0.1		4	0	٥	
9	EFER	1.2	0.	<u>.</u>	0	2	•	13	2	
9	MIDTH AND DIFFERENCE OF POTENTIAL 397 61-44 DO TOU USE OF REFER TO THE 10:1 BACK TO FHONT	33	*	36	30		•;	•	65	
s	RESISTANCE HATIO FOR DIODES JOH GI-45 DG TOU USE OR PEFER TO MARRIER HEIGHT IN	•	^	o	0	13	۰	•	9	
9	SEMICONDUCTORS SEMICONDUCTORS ON REFER TO DIDDE SUBSTITUTION	7	1.1	13	09	96	5.2	75	15	
,	TOU USE 0	2.8	5 8	•	0	25	;	3,1	э	
,	CURRENT DIODE HATINGS TO PEAK MECURRENT FORMARD CURRENT	2	:	•	2	7.5	2	i	a	
,	STOCK HATTHES ON REFER TO MAXIMUM SURGE CUMPENT DIODE	11	5.8	*	0	25	*	3;	9	
,	PATTINGS MOST OF TOU USE OR MEFER TO PEAK REVERSE (INVERSE) VOLTAGE OTODE MATINGS	95	3.4	£	0	3.6	;	ć	o,	
,	62-51 DO TOU BOHK FI	70	*	0	100	æ		2	5.0	
	42-42 DO YOU INSPECT	 - 0		ō #	0 0	e a	0 0	000	0,	
9 9	AND GALLES DO TOU CHECK THANSING TRINGS USING AN INSTRUMENT	: 5			300			000	2 2	TRANSISTORS
	GZ-05 DG TOU USE OR REFER TO EMITTER	1.0	1 8	-	06	£	6	4	30	
,	AND MEYERSE MESISTANCE MEASUREMENTS OF GRADE DO YOU USE OF MEETER TO COLLECTOR - BASE (CB) FORMARD AND MEYERSE MESISTANCE MEASUREMENTS	18	8.3	-	20	6	•	æ r	3	

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PERCENT HEMBERS PERFURPING TASK GROUP SURPART

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CURRENT 434 63-11 DO TOU USE OR REFER TO (COMMON ENITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CI COLLECTOR VOLTAGE WHICH RESULTS FROM A SPECIFIC	CORNERS 3-11 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NICESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A SPECIFIC CHANGE IN	5	81 51	£
HAS GUNENI CONNENT THE TO LCOMMON EMITTER) IN	GASE COMMEN! GASE 200 USE ON REFER TO ICCHNON EMITTER! THE CHANGE IN	6.7	29 31 18	9
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GASE CORRECT MALCY RESOLUS FACHER DE ARLYST CORVER THE METHOD OF ANALYSTS (THIS METHOD REGULARS TOURS)	GB-14 DO TOU USE THE LOAD-LIVE HETMON OF AVAILABLE IN TOUR CIPCLIT AVAILABLE STATEMENT REQUIRES YOU TO PLOT A CIPCLIT AVAILABLE STATEMENT REQUIRES TOUR TO PLOT A	•	,	9
CONTRACTOR OF THE OF THE PARTIES OF THE POINT OF THE OFFICE OF THE PARTIES OF THE	TO THE OPERATING POINT OF	0.1	6 01 01	٠
G3-16 DO TOU CALCULATE THE	443 G3-16 DU FOUNT FOR A MACSISSION OF THE SPECIFIC TOTESCENT POINT FOR A	•		О
63-17 DO TOU MEASURE VOLTA	444 G3-17 YOU MEASURE VOLTAGE GAIN USED IN THE COMMON FRITTER CONFIGURATION	;	5, 5, 1,	2
63-14 DO TOU MEASURE CURRE	THE GB-18 DO YOU MENSURE CURRENT GAIN USED IN THE COMMON	3	31 31 18	

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43-21 DO TOU CALCULATE THE CURRENT GAIN FOR SPECIFIC
TRANSISTORS USING A FORMULA THAT IS, DO TOU DIVIDE THE
CHANGE IN BASE CURRENT INTO THE CHANGE IN COLLECTOR
CURRENT TO DETERMINE THE CUSRENT GAIN

43-2-2 DO TOU CALCULATE THE POWER GAIN FOR A SPECIFIC
THANSISTOR USING A FORMULA THAT IS, DO TOU MULITPLY THE
CURRENT GAIN TIMES THE VOLTAGE GAIN TO DETERMINE THE PONER GAIN
G3-23 DO YOU NEED TO KNOW THAT MORE COLLECTOR CURRENT IS
GENERATED WITH LESS COLLECTOR VOLTAGE AS TEMPERATURE 6 451 63-24 DC TOU COMPUTE THE STATIC OPERATING POINT CO) UF

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63-19 DG YOU MEASURE POWER GAIN USED IN THE COMHON

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TASK GROUP SUMMANY
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01-TSA	454 63-27 DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE THE ACTUAL CINCUITRY THE COMPONENTS ASSOCIATED WITH THERMISTOR STAHLLIZATION	SCHEMATIC DIASHAMS AND RELATE COMPONENTS ASSOCIATED WITH LIZATION	C DIAGRAMS AND RELATE	D RELATE	458 63-31 DO YOU TROUBLESHOOT CINCUITS WHICH HAVE COMPONENTS WHICH PERFORM EXITTER (SWAMPING) RESISTOR STABILLIZATION	459 63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM SELF-BLAS STABILIZATION	100 63-33 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS MAICH PERFORM THERMISTOR STABLLIZATION	141 63-34 DO YOU TROUBLESHOOT CIRCUITS MAILE HAVE COMPONENTS WILCH PERFORM FORMARD BIAS DIOUE STABILIZATION	462 63-35 DO TOU TRUBLESHOOT CIPCUITS MAICH HAVE COMPONENTS MAICH PERFORM MEVENCE ALLS FILLS TION	463 63-30 00 TOU THOUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	WHICH PERFORM DOUBLE DIODE STABILIZATION 46% G3-37 DO 700 IDENTIFT AMPLITUDE DISTURTION FOR TRANSISTOR	STOR CIRCUITS TO FIND	THE GOTTON TO THE THE WILLIAM FOR THE WEST TO STORT TON FOR THE WEST TON THE	CINCOLTS 467 63-460 DO TOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR	TOU THOUBLESHOOT TRANSISTON CIRCUITS TO FIND	CLUSES OF PRISE DISTORTION *** GB-YOU TO YOU THOUGHOUT TRANSISTOR CIRCUITS TO FIND TO CAUSES OF PREMIÉRY DISTORTION	EGENERATIVE EFFECTS ON TIER RESISTANCE FOR DHMON COLLECTON	421 GATHER TO TOTAL THE CLASS OF UPERATION FOR	ELATE TO TOUR THOUSE TO TOUR STATE OF	173 43116 DO TOU THOUSESHOOT OR REPAIR COMPLETENTS THREET	CITCUITS -75 63-46 06 100 FRUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFURMING

	V DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED		,						
	V DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED	101	0.2	63	* 0	in.	0	500	
10 10 10 10 10 10 10 10		5.2			0	CI	-	ru	
00 TOU USE ON REPER TO TOURS LEADED EFFER 1955 57 30 20 70 USE ON REPER TO TOUR COLLAR PROPER TOUR CALCADOR TOUR C	DO TOU USE OF HEFER TO VARACTONS	23	0				-		
00 TOU USE ON REFRENT TO UNIQUECHI TRANSISTICAS (ELI) 55 57 46 50 13 50	DO TOU USE ON ALFER TO TUNNEL UTODES	3.1	37	7			_		441000
10 10 10 10 10 10 10 10	DO YOU USE ON REFER TO FIELD EFFECT TRANSISTORS (FET)	55	2.1	9			0		SULIU-SIMIE SPECIAL
10 10 10 10 10 10 10 10	TO TOU USE ON REFER TO UNIQUECTION THANSISTORS	35	35	00			0		
DO TOU NOT PRESENT JOHN CREATED CIRCUITS DO TOU NOT PRESENT JOHN CREATED CIRCUITS DO TOU ALLIAN DOMES SUPPLIES DO TOU ALLIA	S DO YOU USE ON ALFER TO ZENER DIQUES		96	7			7		
The color backer Superies The color backer Th	DO YOU USE OR REFER TO INTEGRATED CIRCUITS	9.5	10	,			1		
0.00 100	IN YOUR PRESENT JOB. DO YOU MON'S BITH POWER SUPPLIES	26	63	_					
Deciding	DO YOU INSPECT PORER SUPPLIES	06	0.	_					
Dec Tole Like Dec De	DO YOU CLEAN PONER SUPPLIES	8.3	85	7					
	TO TOU ALIEN OR ADJUST POWER SUPPLIES	06	06	_			۵		
DOT THURSESCRIPT TO PRIES SUPPLIES 01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S DO YOU THUUBLESHOOT TO POWER SUPPLY CIRCUIT LEVEL	18	8.7	1			-		
DO TOW REPORT OF REPLACE COMPLES SUPPLIES 90 90 91 60 68 94 80 50 00 100 00 00 00 00 00 00 00 00 00 00 0	DO TOU TROUBLESHOOT TO BOKER SUPPLY COTFORESTS	10	8.2	•			0		
NECTIFIERS 1990 1	TOU REMOVE OR REPLACE COMPLETE POMER SUPPLIES	90	00				10		DOMED CHARALTER
DO TOU MORE WITH HALE	SO YOU REMOVE OF REPLACE POWER SUPPLY COMPONENTS	19	1.8	•			æ		TORCH SUPPLIES
	DO YOU BORK MITH HALF-WAVE RECTIFIERS	1.	18	•			30		
E RECTIFIERS 00 TOU WORK WITH GRIDGE REPLOT NOUTFUL 00 TOU WORK WITH GRIDGE REPLOT REPLOT TO REACTIFIER 00 TOU WORK WITH GRIDGE REPLOT REPLOT TO REACTIFIE 00 TOU WORK WITH GRIDGE REPLOT REPLOT TO REACTIFIE 01 TOU WORK WITH GRIDGE REPLOT REPLOT TO REACTIFIE 02 TOU WORK WITH GRIDGE REPLOT CAPACITIVE 03 TOU WORK WITH GRIDGE REPLOT CAPACITIVE 04 TO TOU WORK WITH GRIDGE REPLOT CAPACITIVE 05 TOU WORK WITH GRIDGE REPLOT CAPACITIVE 06 TOU WORK WITH GRIDGE REPLOT CAPACITIVE 07 TOU WORK WITH GRIDGE REPLOT CAPACITIVE 08 TOU WORK WITH GRIDGE REPLOT CAPACITIVE 09 TOU WORK WITH GRIDGE REPLOT CAPACITIVE 00 TOU WORK WITH GRIDGE REPLOT CAPACITIVE 00 TOU WORK WITH GRIDGE REPLOT TO THE OF 00 TOU WORK WITH GRIDGE REPLOT TO THE OF 01 TOU WORK WITH GRIDGE REPLOT TO THE OF 02 TOU WORK WITH GRIDGE REPLOT TO THE OF 03 TOU WORK WITH GRIDGE REPLOT TO THE OF 04 TO TO TOU WORK WITH THE GRIDGE REPLOT TO THE OF 05 TOU WORK WITH THE CRIDGE REPLOT TO THE OF 06 TOU WORK WITH THE CRIDGE REPLOT TO THE OF 07 TOU WORK WITH THE CRIDGE REPLOT TO THE OF 08 TOU WORK WITH THE CRIDGE REPLOT TO THE OF 08 TOU WORK WITH THE OF FILETRE	DO YOU MORK WITH FULL -WAVE RECLIFIERS OTHER THAN	6.5	* 60	_					
	SE RECTIFIERS								
100 100	DO TOU WORK WITH BRIDGE RECTIFIERS	8.1	87	-			,	1 50	
DOT UUSE ON REFER TO INPUT VULTUGE	DO TOU MORK WITH THREE-PHASE RECTIFIENS	5.9	09				0	5	
	DO TOU USE ON REFER TO INPUT VOLTAGE	87	80 80	2			0	5	
	" DO YOU USE OR REFER TO IMPUT FREQUENCY	70	99				7	2	
### CAPLE COUTPUT VOLTAGE ### CAPLE AND LITUDE ### CAPLE FREE (INVERSE) VOLTAGE ### CAPLE FREE (INVERSE) VOLTAGE ### CAPLE FREQUENCY ### CAPLE COUTPUT MAYERORMS ### CAPLE COUTPUT MAYER	S DO TOU USE OF REFER TO PEAK OUTPUT VOLTAGE		9	•			2 7	2	
PLE AMPLITUDE PLE FREQUENCY RECESSE (INVERSE) VOLTAGE 12	S DO TOU USE ON REFER TO AVERAGE OUTPUT VOLTAGE	29	79	2			,	3	
PLE FREQUENCY R REVESSE (INVERSE) VOLTAGE 42 41 45 50 13 47 34 47 41 45 60 13 47 34 34 34 41 45 60 13 47 34 34 34 34 34 34 34 34 34 34 34 34 34	7 DO YOU USE OR REFER TO RIPPLE AMPLITUDE	•1	•				0	2	
R REVERSE (1 NYERSE) VOLTAGE 42 41 45 60 13 47 34 56 57 56 69 56 57 56 69 55 56 56 57 56 69 55 56 56 57 56 69 57 56 69 57 56 59 56 5	B DO YOU USE OR REFER TO RIPPLE FREQUENCY	15	53	٥			9	5	
PE OF OUTPUT MAYEFORMS 72 72 73 36 50 76 63 ECTIVE OUTPUT WOLTAGE 72 74 55 90 50 84 63 MHICH EMPLOY CAPACITIVE 60 55 60 13 69 69 MHICH EMPLOY CAPACITIVE 50 51 45 70 25 69 50 MHICH EMPLOY CAPACITIVE 50 51 45 70 25 69 50 MHICH EMPLOY CAPACITIVE 50 57 45 70 25 69 50 MHICH EMPLOY CAPACITIVE 50 57 45 70 25 69 50 MHICH EMPLOY RC PILTYPE 50 57 45 60 25 69 56 MHICH EMPLOY RC PILTYPE 56 57 45 60 25 69 56 MHICH EMPLOY RC PILTYPE 56 57 36 60 25 69 56 69 56 69 56 <td>9 DO TOU USE ON REFER TO PEAK REFERSE (INVEHSE) VOLTAGE</td> <td>45</td> <td>7</td> <td>5</td> <td></td> <td></td> <td>7</td> <td>5</td> <td></td>	9 DO TOU USE ON REFER TO PEAK REFERSE (INVEHSE) VOLTAGE	45	7	5			7	5	
ECTIVE OUTPUT VOLTAGE WHICH EMPLOY CAPACITIVE WHICH EMPLOY CAPACITIVE	DO YOU USE OR REFER TO SHAPE OF QUIPUT NAVEFORMS	7.3	14	•			9	2	
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TASK GHOUP SUMMANY PENCENT MEMBERS PENFORMING

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TASK GROUP SCHART
PERCENT HEMBERS PERFORNING

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DY-15K	De 01-	20.		SI II-IS SO TOU TORK WITH ASTABLE HULTIVISHATU	SA 11-14 DO TOU BORK BITH HONOSTABLE HULTIVI	53 11-15 DE TOU MORK MITH BISTABLE MULTIVIBHATORS	11-16 DO TOU BOAK MITH DON'T REMEMBER WHICH	MALTIVIBRATORS	01 00	56 12-32 60 750 NORK MITH SERIES 0	2-03 DC YOU BORK WITH SHUNT DIODE LIMITERS	8 12-04 00 TOU SONK NITH LIMITERS	9 12-05 DO YOU "OKE "ITH ZENER DI	12-06 DO YOU HORK WITH TRANSISTOR LIMITERS	1 12-67 DO TOU TOPK MITH DON'T KNOW WHICH TYPE	2 12-08 30 TOU MURK WITH BASIC DIODE CLAMPING CIRCUITS	3 12-09 DC TOU MORK MITH DIDDE CLAMPING CIPCUIT	STATES OF THE PORK BITH DON'T PROM BHICH TIPE OF CLAMPIN	1 1: TOUR PRE	CONTAINS ELECTION TUBES	TO TOU CHECK ELECTRON TUBES TO SEE IF TH	THE THE PERSON OF THE MET THE TENT TO CHECK ELECTRON TUBE	a same of the tipe for the tipe for the current of	D 13-06 OF TOU USE SUBSTITUTION TO CHECK OF	1 13-07 00 TOU USE OF REFER TO CUTOFF	2 13-36 DO TOU USE ON REFER TO PEAK INVERSE Y	3 13-UP DO TOU USE OR REFER TO PEAK CUTRENT KATING	4 13-10 00 100 USE ON REFER TO THANSIT TIME	13-11 00 TOU USE OR HEFER TO PLA	13-12 DE TOU USE ON REFER TO SATURATION	וחבוז סר נסר מצר מע אבורא וח מכ בריור אוצוא שיכר	A 13-14 DO TOU COMPOUT ACTUAL VALUES OF THE CARESTALLIANS FOR FLECTRON THREE	74 13-15 00 100 USE ON REFER TO PL	BU 13-16 00 100 USE ON MEFER TO PL	81 13-17 34 100 USE ON REFER TO GH	13-16 OC TOU USE OR REFER TO GH	BI 13-19 JO TOU USE OR PEFER TO CATHODE VOLT	84 13-25 DC TOU USE ON HEFER TO CATHODE CURRENT	THE TAIL OF THE TAIL INTEREST TO THE THIRDE APPLIES CATURE THE TAIL OF THE TAI	AL PATTO OF CHANGE IN PLATE VOLTAGE TO A CHANGE IN GRID	*CL**EE

TASK GROUP SUNTAHY PEPCENT HEMBINS PLHFORMING

																									ELECTRON TUBE AMPLIFIERS AND CIRCUITS
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UT-15K	SAN 13-42 DU TOU CALCULATE ACTUAL VALUES OF TRIODE	SEZ 13-23 DU YOU USE ON REFER TO MULTIGRID (TETRODE, PENTODE,	SAR 13-24 DC YOU USE ON REFER TO ELECTHON TUBE TRANSCOADUCTANCE	SAR 13-25 DE TOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE	SON 13-20 DO YOU USE OF HEFER TO THE ELECTRON TUBE PARAMETER	SALLED AC PLATE ASSISTANCE SALUES OF AC PLATE.	RESISTANCE SET OF WEFER TO ELECTION TUBE INTERELECTIONE	SPS 13-24 DO TOU USE OF HEFER TO CHARACTERISTIC CUMPES IN YOUR	1 20 5	SAS 13-31 DO TOU USE CHARACTERISTIC CUPYES TO SELECT PLATE	CURRENT FOR A SPECIFIED BIAS 596 13-32 DG YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	SAT 13-33 DO TOU USE CHAMACTERISTIC CURVES TO SELECT BIAS	REGULARD FOR SATURATION 598 13-34 DO YOU USE OR HEFER TO ELECTRON TUBE AMPLIFIER GAIN 499 13-35 OF YOU US: OR HEFER TO FLECTRON TUBE AMPLIFIER	EFFICIENCY 13-36 JO YOU USE TEST TUBE CHECKERS TO DETE	TUBE AMPLIFIER GAIN ADI 13-37 DO TOU USE MULTIMETERS TO DETENMINE ELECTHON TUBE	APPLIFIER GAIN 602 13-38 DO YOU USE OSCILLOSCOPES TO CETERMINE ELECTRON TUPE	603 13-34 DO YOU USE CHANACTERISTIC CURVES TO DETERMINE	ELECTRON TUBE AMPLIFIER GAIN 6U4 13-40 DU YOU CALCULATE ANY ELECTRON TUBE CAPACÍTANCES SUCH	AS INPUT CAPACITANCE OF GEREA TO TURE SOCKET NOTATION	13-42 DO YOU USE OF REFER TO PIN NUMBERIN	TOU USE ON HEFER TO THE TYPE OF MATER!	PPERATUSE OF THE END	1 608 13-44 DG TOU USE ON REFER TO TUBE SUBSTITUTION MATERIAL	J 689 JI-01 30 YOU FOR MITH ELECTION TUBE AMPLIFIERS OR CIPCUITS	IN TOUR PRESENT JUSS JETO JI-02 DO TOU DETENINE THE CLASS OF UPENATION FOR ELECTION TUSE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS

PCT MBRS RESPONDING . TES' BY SELECTED GRPS

TASK GROUP SUMMANY PERCENTING

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TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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UY-15R	KI-US DC TOU THOUBLESHOOT TO AM TRANSMIT ON RECLIVE SYSTEMS KI-DE DC TOU TROUBLESHOOT TO AM TRANSMIT ON RECLIVE COMPONENTS.	KI-07 OC TOU SEHOVE OF HEPLACE AN TRANSHIT ON RECEIVE	STATENS OF TOU REMOVE OF REPLACE AN TRANSMIT OF RECEIVE	PERFORM TASKS ON	PENFORM TASKS ON RF	DE TOU PERFORM TASKS ON AUDIO	-12 DO TOU PEHFORM TASKS DA PONER AMPLIFIERS	-14 DO TOU PERFORM TASKS OF	ALLES DE TOU PERFORM TASKS ON IF AMPLIFIERS	-16 DG YOU PERFORM TASKS ON	DG YOU USE OH REFER TO AMPLITUDE STABILIZATION !	RANSMITTERS	TANNALTERS	DO YOU USE ON MEFER TO SENSITIVITY OF	DO YOU USE ON PEFER TO SELE	DO YOU USE OF PLFER TO 2ND HAPMONIC DI	OC CSE ON SEFER TO	00 100 05	5 00 700 USE ON PEFER TO 1	-Ze DU TOU USE OR REFER TO S	INAUE PEDECTION MATTOS FIRST DO TOU THATE STONALS OF CHRRENT PATHS THRUGH AN	51		AZECTIVE SCREMATIC CIACRAMS AZECTOR DO YOU MORK MITH FM THANSMIT ON RECEIVE STSTEMS IN	ESENT JUB	PECT IN TRANSMIT OF MECE IV	TOU CLEAN FH TRANSMIT OR RECEIVE	TOU ALIGN FM TAANSMIT ON MECLIVE ST	EMS	KZ-D& DO YOU THOUALESHOOT TO FM TRANSHIT ON RECEIVE	COMPONENTS <22-07 DO TOU REHOVE ON MEPLACE IN TRANSHIT OR RECEIVE	O RENOVE OR REPLACE IN THANSPIT OR	Pratition 1	-10 00 YOU PERFORM TASKS ON FRENCHINGY MULTI

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TASK GROUP SUMMANT PLACENT MEMBERS PERFORMING

														NUMBERING SYSTEMS											LOGIC FUNCTIONS												
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-	103	0	d	0	0	0	0	0	0	3	,	17	17	2.7	27	2.1	2.1	27	7.7	11		27	36	2.7	2.7	2.1	2.7	17		2	11	,		30		17	
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	351-140	676 AZ-11 DO TOU PERFORM TANKS ON DRIVERS LINTERMEDIATE	Nap. IF IERS	x2-12 00 70U	STORES TO TOO TENTONE TO THE TOTAL OF THE TO	A STATE OF THE STA	ASTA OF YOU PERFORM TASKS OF LIMITERS	THE TACK OF THE PERFORM TACKS ON	KZ-18 DO TOU TRACE SIGNALS OF	SCHEMATIC DIAGRAMS OF FM TRANSHITTEPS	A BRE AZINO DO TOD TRACE SIGNALS ON CLEARANT TAINS THROUGH	1	(345E 8) NUMBERS K ABA K3+02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2)	:	THE STREET STREET STREET STREET STREET	AN INCHES OF STREET WANTER TANABLE OF THE PARTY OF THE PA	AST CALCO TOU CONVENT BINARY NUMBERS TO OCTAL N	THE REST OF TOU AND BINGHY NUMBERS TO GET	A3-08 DO TOU SUBREACT GINART NUMBERS US	CARR	20.00	S TO GET A SUM	645 LI-01 IN YOUR PHESENT JOB. DO TOU PER	RELATING TO LOGIC FUNCTIONS 1 696 LI-UZ DO YOU CONSTHUCT TRUTH TABLES FOR AND LOWIC STHBOLS	ON GATES		STRBOLS WITH STATE INDICATORS L 599 LI-US DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LUGIC	STHEOLS OR GATES	OR 64TES		762 .LI-08 DO TOU USE OF REFER	LUGIC STMBOLS WITH STATE INCICATORS	REFER	TOGIC SYMBOLS	OR REFER TO LOGIC STROOLS FOR CR CATES	704 LI-12 00 TOU USE ON MEFER TO LOGIC	64765

TASK GROUP SURMANY PLACENT MEMBERS PLAFORMING

PERCENT REMBERS PERFORMEND					3		745	0	
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	STABOLS FOR EXCLUSIVE	3.7	9	11	01	7.5	41 05	3	
1 30B . D	OB. DO YOU PERFORM ANY TASKS	07	20	12	0	52	36	3	
RELATING TO BOOLEAN ENGALIONS: COSTO	SINECT COUPLED	1	21	•	10	13		0	
THANSISTON LOGIC (DCTL	CIRCUITS TRUTH TABLES FOR CURPENT HODE LOGIC	•	^	۰	01	6		13 0	MOT MINE SON
CHL) CIRCUITS	10" GIVE" BOOLEAN	<u>r</u> _	2		0.	13	•	3	BUOLEAN EQUALION
ESPATIONS LZ-05 DO YOU ME.SUME INFORMATION OF CALLON OF YOUR OF UNITED OF UN	LUTS OR OUTPUTS OF LOGIC GATES ANALYZE GOOLFAN EQUATIONS IN THE	32	32	17	00	38	1 82	00	
PROCESS OF THOUBLESHOOT	CIRCUITS S BY USING BOOLEAN	62	22	17	0.1	2	1 18	0 61	
ALGEBRA	TO LOGIC STMBOLS FOR DIRECT	11	15	20	07	13		0 61	
THANSISTON LOGIC	(DCTL) CIRCUIT GATES TO TRUTH TABLES FOR CURRENT MODE	1.4	•	20	01	1.3	•		
LUGIC COME, CINCUITS	DIAGRAMS CONSISTING OF	5.5	52	17	01	33	;	5	
ACHE THAN O'E GATE	AND CARRY EXPRESSIONS FOR SERIAL	1.7	5.	17	21	25	•	13 0	
HALF OF FULL ADDER LUGIC	IC DIAGRAMS FLOW THROUGH PAPALLEL FULL ADDEP	77	5.1	27	0.1	52	3.0	7 7	
LOUIC DINGHAMS	EE KUINING!	97	52	9	10	5.2	3.6	6.	3
HULTIVIEHATORS 12-14 OG YOU NORK MITH BISTABLE 12-15 ON YOU NORK MITH MONOSTABL	(FLIV-FLOP) MULTIVIERATORS	35	7.5	27	00	38	;;		20
TAT LOTTE DO TOU USE ON REF	ER TO FLIP-FLOP MULTIY SPATON	7	~	~	01	3.8	:	0	5
SYMHOLS 12-17 30 700 USE OR HEFER TO	SINGLE-SHOT MULTIVIBEATOR	2.8		11	0 1	3.6	36	•	0
STABULS ON REFER TO	FLIP-FLOP CIRCUIT . IAGRANS	52	92	7.7	0.0	52	- ·		3 3
TOU USE OF MERER TO	FLIP-FLOP TRUTH TABLES	7.0	22	27	20	5.5			
728 12-21 00 100 USE OF REFER TO	COMPLETENTING FLIP-FLOP LOGIC	30	52	2.3	0.1	<i>y</i>		0	3
724 L2-22 DO 100 MEASURE D	UTPUT NAVESHAPIS OF LUGIC CIRCUITS A FLOW THROUGH COMPLEMENTED FLIP-FLOW	5 0 0	2 2	27	25	25		0 0	3 3
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TASK GROUP SUMMANY PEACENT MEMBLAS PERFORMING

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x21 - x0	733 L3-01 De 760 mork with DiGITA	134 L3-02 DO TOU USE ON REFER TO UP-COUNTERS	735 13-03 DO TOU US, OF REFER TO	21. 1-10. 10. 10. 10. 10. 10.	120 L3-01 DG 100 OSL OF REFER TO SENIAL COUNTRY	737 L3-05 DO 700 USE ON REFER	738 L3-06 DG TOU USE OR REFER TO	739 L3-07 DU TOU US. OR REFER TO	740 L3-08 On You US: OR PEFFR TO	OF 43230 SO 101 101 OF 611-11	1-10 00 TOU USE OF BEEER TO	20 3 13-11 00 Von Terke part.	UP-COUNTERS HAVING COMPISHENTED FLITTELOPS	TRACE DATA FLOW THROUGH	SERIAL UP. OR DOWN-COUNTERS HAVING COMPLEMENTING FL	\$10PS	L 245 L3-13 DO TOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	DECADE COUNTERS	C 246 L3-14 DO TOU TRACE DATA FLOW THROUGH LOGIC DIAGNAMS OF	ALM COUNTERS	FLOW THEOUGH LUGIC DIAGRAMS OF	SENIAL UP-COUNTERS FEEDING A PAPALLIL STOPAGE MEGIS	L 748 L3-16 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	SHIFT REGISTERS	L 749 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGNAMS OF	OTHER TYPE OF COUNTERS	1 0 1 V 1 V 1	BINER COUNT AFTER	PULSES FOR SERIAL UF-	E BINANT COUNT AF	PUBLICATION SERIES OF COUNTERS FEEDING & PARALLEL STORAGE	H COMPUTE TH	PULSES FOR OTHER TYPES OF COUNTERS	STRUCT	DECADE COUNTERS	L 255 L3-23 DO TOU DETENTINE THE STATE OF LACH FLITTION IN NING	STATE OF THE STATE	ITS TO INDICATE A REQUIRED COUNT	757 MI-UI DO TOU MONK WITH SANTGUTH MAVE	758 #1-02 00 TOU -046 #17# 7	41-03 DO TOU BORK -178	FLEDBACK	TOTAL TOTAL TOTAL TOTAL TOTAL OF CITLATORS TITTORS	TELEVISION SECONDS

TASK GROUP SUMMANY PENCENT HEMBERS PERFORMING

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	Dr-15x	761 A1-05 Do 10U	762 HI-05 DO TOU USE OF REFER TO PIS	763 HI-UT DG YOU USE ON REFER TO FALL	USE OR REFER TO SHEEP TIME	U USE ON REFER TO ELEC	ALVERONMS	TANEFORMS	H 267 MI-11 DO TOU USE OF REFER TO LINEAR SLOPE OF SANTOOTH	** A L F O H P S	A 768 TITE DO TOU USE UN ALFEM TO GATE LENGTH OF SAMTOUTH	RZ-01 GO YOU USE SIGNAL GENERATORS IN YOUR PRESENT	770 -2-02 DO 10D	GENERATORS H PENFONN PENFOUNCE MAINTENANCE SUCH AS	TING PHILE	- 772 m2-04 DO YOU THOUSEESHOOT TO AN ASSEMBLY ON SUBASSEMELY	WHILE USING STUNAL GENERATORS	A 273 A24-US DO 100 TRUDRIESHOOT TO THE SMALLEST HEPLACEABLE COMPONENT WHILE USING STOKES COMPANIONS	774 -4-36 DO TOU USE AUDIO SINE 445	AUDIO NON-SINUSO	AS SQUARE MAVE, THIANGLE, PULSE, OR SPIKE	"2-08 DO TOU USE ME GENERATORS LESS THA	777 -2-UT DO TOU USE AT GENERATORS GREATER THAN 1,000 PH	A 774 AZ-10 DO TOU USE OTHER SPECIAL PURPOSE ON MULTI-FUNCTION	ANY HAD AND AND	WITH ALTERNATING CURRENT OR DIRECT CURRENT NOTORS	GENEHATORS	780 43-02 00 100 INSPECT MOTORS	181 19-03 00 187	CANDO CONTROL TO CONTR	TO SECURE OF THE PROPERTY OF THE PARTY OF TH	THE HALL OF THE PROPERTY OF A	CONTRACTIONS OF MOTORS	/84 +3-66 DO TOU TROUBLESHOOT DO-N TO	767 H3-39 DC TOU PEMFORM ANY TASKS ON	788 M3-10 UG TOU PERFORM ANT TASKS ON	769 *3-11 00 100 PENFUN ANY TASKS ON	AS-IZ DO TOU PERFORM BYY TASES OF	NO SYSTI LAT HENDEN TO DO DO STEEL TO	NO STATE THE PROPERTY OF THE PARTY OF THE PA	AT THE STORE THE CAR ANT TASES ON

TASK GROUP SUMMANT PERCENT MEMBERS PERFORMING

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DY-15A	H 794 H3-10 DO YOU DETEMBLE OR MEASURE THE HAGNITUDE OF THE	N 745 A3-17 DO YOU DETERMINE OR MEASURED ON THE WIRELIAM OF THE METHANICAL FORCE OR TORDUS AND A MOTOR	A 190 M3-16 DC YOU DETERNINE OF MEASURE THE MACHITUDE	DO YOU WORK ALTH SYNCHFOND	#3-20 DO YOU WORK WITH INDUCTION	799 #3-21 DO YOU MONK MITH SPLIT-PHASE MUTORS	800 M3-22 DO YOU	H BOJ H3-23 DO YOU INSPECT CENERATORS	BO3 M3-25 DO YOU OPERATE GENERATORS	804 13-20 00 100	805 H3-27 DO TOU REHOVE OF HEPLACE GE	H HUS HU-18 DU YOU TROUBLESHOOT AS FAN AS CHECKING WINE	0 2	N EGB NI-DI DO YOU WORK WITH METERS IN YOUR PRESENT JOB	609 NI-62 DO YOU CONCEPTUALIZE OF CON	PERMANENT MAGNETS 810 MI-03 DO YOU CONCEPTUALIZE OR	HOVING COILS	SPINAL SPRINGS	DO YOU READ METER SCALES	200		010 x 1-00	CEAPRESSED IN UNITS OF OHMS PER	186	AMPLIFIERS IN YOUR PRESENT JUB	REACTORS N 023 N2-03 DG TOU CLEAN MAGNETIC AMPLIFIES OR SATURABLE	HEACTORS HEACTORS HEACTORS HASHETTE AND	ALACTORS.	1. 822 1.2-05 DO YOU TROUBLESHOOT MACHETIC AMPLIFIEMS ON SATURABLE	A 523 NZ-CE DO TOU REMOVE ON PEPLACE HAUNETIC AMPLIFIERS OF	SATURBLE MERCIONS 1. 524 N2-07 DC TOU REFOVE OR MEPLACE MEGNETIC AMPLIFIER OR	

PLT MBRS NESPONDING TYEST BY SELECTED GRPS

GPSUMS PAGE 30

TASK GROUP SUMMARY PERCENTING

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VY-15K	N 828 NZ-UH DO TOU USE ON REFER TO PYSTERESIS CUNYES OR LOOPS N 828 NZ-UH DO TOU INTEMPRET SCHEMATIC DHANINGS TO DEVELOP OUTPUT MAYEFURHS ACROSS REACTOR MINDINGS OF LOAD RESISTORS OF	STAGE MINDING STIUMBEE REACTORS N 827 N2-10 DU TOU MEASUME OUTPUT MANEFORMS ACROSS REACTOR NINDINGS OR LOAD RESISTORS OF SINGLE MINDING SATURABLE	N 428 NET DAYS TO UNTERPRET SCHEMATIC DRAWINGS TO DEVELOR DUTPUT WAYER OFFICE AMPLIFIERS	N 829 NZ-12 DO TOU USE ON REFER TO COERCIVE FORCE IN SATURABLE REACTORS	N 839 NZ-13 OF YOU USE ON NEFER TO RESIDUAL MAGNETISM IN SATURABLE MAGNORS	N 631 42-14 DO TOU USE ON REFER TO FLUX DESSITY IN SATURABLE	N 432 NZ HERLICAS OF PEFER TO POINT OF SATURATION IN SATURANCE REACTORS	4 633 N.2-16 DO TOU USE OF REFER TO SATURABLE REACTOR SCHEMATIC	. 234 13-01 00 YOU BORK MITH ARVESHAPING CIRCUITS IN TOUR PHESENT	REFER TO TRANS	436 N3-U3 DO YOU USE ON REFER TO PULSE WIDTH (Pr.)	USE OR REFER TO PULSE RECURRENCE FREGUENC	STANDARD SALTARDARDED OF ASSERT SO SOUTHER OF ASSERT	840 N3-07 DO YOU USE ON HEFER TO INTEGRATING CINCUITS	43-39 30 100 USE OF REFER TO T	CONSTANTS (TC) AS LONG, MEDIUM, ON SHORT IN 642 43-89 DO TOU DETERMINE MMETHER AN LR OR RC CIRCUIT IS DIFFERENTIATING OR INTEGRATING BASEU ON THE CONSTANT	UT CONFIGURATION	S BEAT TO THE TOTAL BOX A TITE SECURE BAVE GENERALIONS FRAT THE TOTAL BOX A TITE RECITANCE AN ALVE GENERALIONS	445 01-01 DO YOU MORK UN STIGLE STOFBAND SYSTEMS IN	245 31 305 TO 145PECT 55H TARNETT OF HERETY STREET	647 UI-US DU TOU CLEAN SSB TRANSMIT OR RECEIVE STSTEMS	348 GI-G+ DC YOU ALIGH SSB TRANSHIT OR RECEIVE SYS	TOU TROUBLESHOOT TO 558 TRANSHIT O	STATEMS O 850 01-00 DO FOU TROUBLESHOOT TO SSB TRANSMIT OF RECEIVE	D 451 OL-FORD TOU REHOVE OR HEPLACE 558 TIANSMIT OR RECEIVE	D 854 01-04 DO YOU REPOYL OR HEPLACE SSB TANISHIT OF "ECETYE

TASK GROUP SUMMANT PERCENT MEMBERS PERFORMING

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TASK GROUP SUMMENT PERCENT ATMBERS PERFURNING

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V-15K	U SHE UZ-15 DO TOU PERFORM TASKS ON PULSE HODULATION STSTEM	-16 DU TOU PERFORM TASKS ON	TASKS ON PULSE	PULSE FORMING RETWORKS ON PULSE	TIMERS HES DZ-19 DG TOU PEHFORM TASKS ON P	SATITURES SUCH AS GAS THYRATHO	563	THANSMITTER TOPES UND PERFORM TASKS ON PULSE HOUVLATION SYSTEM RE	I	U 898 02-24 DO TOU PERFORM TASKS ON PULSE HODULATION STSTEM	IF AMPLIFIERS U 399 02-25 00 YOU PERFORM TASKS ON PULSE YOUVLATION SYSTEM	DETECTORS O 900 02-26 DO TOU PERFORM TASKS ON PULSE MODULATION SYSTEM	9010	TASKS ON PULSE MODULATION	U 903 02-29 DO YOU USE ON REFER TO PULSE ALCUMENCE FREGUENCY	404 62-30 DO TOU USE OF HEFER TO PULSE	905 UZ-31 Dr YOU USE OR REFER TO	907 02-33 00 100 055 05 KEEFE TO PELK P	02-34 DU TOU USE OF REFER TO	THE CHARGE OF FELCENCY FOR MECCARRING THE CONT.	PECUPAENCE FREUENCY (FRF) 911 02-37 DL TOU USE FURHULAS TO CALCULATE AVERAG	PLAK POWEN OF PULSE, MODUL 912 02-38 DO TOU THACE SIGNALS	413 02-34 00 TOU TRACE ST	THENAS

TASK GROUP SUMMARY PERCENT HEMBERS PERFORMING

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9	440 03-27 DO YOU USE OF REFER TO THE TIME PHASE OF ELECTRIC (E)	~	~	0	0	-1	0	0	0	
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TASK GROUP SUMMERY
PERCENT HLABLMS PLNFORMING

ES ARE DEFINED TO INCLUDE LEADS NTENDAS, TELEPHONE LEADS, AS WELL INES, ETC. DO NOT CONSIDER 10N LINES USE COPPER LOSS ON 12M LOSS IN 11 10 0 USE SKIN EFFECTS OF HIGH FHEQUENCY 11 10 0 USE REDIATION LOSS IN THANSMISSION 11 10 0 R TO DIELECTRIC LOSS IN THANSMISSION 12 10 0 R TO LEAKGE LOSSES IN THANSMISSION 13 3 0 HISTED PAIR FRANSMISSION LINES 14 10 0 T TRANSMISSION LINES 15 10 COAXIAL CABLE THANSMISSION 15 10 COAXIAL CABLE THANSMISSION 16 10 COAXIAL CABLE THANSMISSION 17 10 COAXIAL CABLE TRANSMISSION 18 10 COAXIAL CABLE TRANSMISSION 19 10 COAXIAL CABLE TRANSMISSION 10 10 COAXIAL CABLE TRANSMISSION 10 10 COAXIAL CABLE TRANSMISSION 10 10 COAXIAL CABLE TRANSMISSION 11 10 COAXIAL CABLE TRANSMISSION 12 10 COAXIAL CABLE TRANSMISSION 14 10 COAXIAL CABLE TREMINATION 16 10 COAXIAL CABLE TRANSMISSION 16 10 COAXIAL CABLE TRANSMISSION 16 10 COAXIAL CABLE TRANSMISSION 17 10 COAXIAL CABLE TRANSMISSION 18 10 COAXIAL CABLE TRANSMISSION 19 10 COAXIAL CABLE TRANSMISSION 10 COAXIAL CABLE TR
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TASK GROUP SUMMANT PERCENT HEMBERS PERFURMING

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TASK GROUP SUMMARY PERCENTING

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TECHNICAL DATA PIUZO PZ-WA A ME CHOKE DOINTS USED IN MAVEGUIDES OR CAVITY PIUZO PZ-WA LINDER MITTER	0	0	9	0	c	a	0	
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RESOLATORS FOUR BORK WITH	G	٥	0	0	c	0	-	
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AMPLIFILMS								
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P3-14 00 TOU MONK "ITH MAGNETRO	0	a	0	0	0			
F3-15 DO TOU INSPECT KLTSTROW	J	0	0	0	0)		
P3-16 DU TOU CLEAN ALTSTRONS OR THT	3	0	0	0	0			
PJ-17 DO TOU TUNE KLYSTRONS OR	0	0	0	0	0			
P3-18 DU TOU TUYE KLTSTRONS OR THT	د)	0	0	c			
P3-19 DO YOU PENFORM OPERATIONAL CH	0	0	O	0	0		0	
1053 P3-20 DO TOU TROUBLESHOOT KLTSTRONS OR THT	o	ر	o	0	C			
P3-21 DO TOU REHOVE ON MEPLACE COMPLETE KLYSTRON OF THE	٥	0	0	0	0			
P3-12 DO TOU REMOVE ON HEPLACE ALYSTHON O	o	0	0	o	0			
P3-23 DO TOU INSPECT PARAMETRI	•		0	0	0			
57 P3-2" DO YOU CLEAN PARAMETRIC A	0		0	0	0	0	0	
PICSE P3-25 DO TOU ADJUST PARAMETHIC AMPLIFICAS	٥	0	0	0	a			

TASK GROUP SUMMANT PERCENT HENGERS PERFORMING

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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PILOT PS-74 OC TOU PERFORM TASKS ON RESONANT CANITIES	a c	o a	0 0	0 0	ac	2 2	0 :		
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TASK GROUP SUMMARY PERCENT MEMBERS PERFURMING

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0.Y-75A	WILLS WITCH FEGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES HAVE PASSED	GILLY 42-01 DO TOU WORK WITH DIGITAL COUNTERS, REGISTERS, OF STORAGE DEVICES IN YOUR PRESENT JOB	GILLA 92-02 DE YOU USE ON KEFER TO DELAY LINES	42-03 DO 100 USE	42-U4 DC TOU USE ON MEFER TO MAGNETIC	42-US DO YOU USE OR REFER TO MAGNETIC TAPES	GILLS WATUR DO TOU USE ON REFER TO ACCESS TIME ON SPEED OR	41123 42-57 DO TOU USE OR REFER TO -090 CAPACITY OF MEMORY	5157615	22-08 DO TOU USL OR REFER TO VOLATILITY OF ME	GILLS GA-CT IN YOUR PHESENT JOB DO YOU BOOK WITH DIGITALINES	ATALOG (DZA) CONVERTERS. ANALOG-TO-DIGITAL (AZD)	GINZY WALLENS, OR HIMBRY-TO-DECIMAL RELDOUT CONVERTERS GINZY WA-OZ DO YOU COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL	DIGITAL-TO-ANALOG (D/A) CONVENTENS	91.0	COUNT IN ELECTHOMECHANICAL DIGITAL	THE DENOM!	RESISTORS	COUNTS IN ELECTRONIC DIGITAL-TO-ANALOG (D/A) C	GILSO 43-05 DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME	TITEL ASTOR DO YOU PERFORM MOLD FUNCTION TASKS ON VARIABLE TIME	A'ALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	21132 43-07 DO TOU PERFORM COMPARE FUNCTION TANKS OF VARIABLE TIME ANALOG-TO-DIGITAL (A.D. CONNERSTER CINCLIA	104	TIME ACATOCHES ON THE STATE OF THE SECTION TO THE STATE OF THE SECTION THE SEC	CN VARIABLE TIME ANALOG-TO-DIGITAL IA/DI CONVENTER	STICATION OF THE PRESENT OF MEETINGS OF ME	CONVERTERS	GIIJA 63-11 DC TOU USE OF REFER TO HOLD FUNCTION OF A/O	-1137 93-12 00 100 USE ON REFER TO COPPANE FUNCTION OF A/D	TILIBRE GOTTE DE TOU USE OF REFER TO DIGITAL FUNCTION OF AVE	GILLE WE'T DO TOU PENFORM ANY TASKS ON MECHANICAL ANALOG-TO-	DIGITAL LAZE! COMMENTERS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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Coloning C	REFULLINGUE PRESENT JOB DO YOU WORK AITH SCHMITT THISGER CIRCUITS K2-D2 DO YOU TRACE DATA FLOR THROUGH SCHMITT THISGER SCHEMITE DIAGRAMS R2-D3 DO YOU USE DRIEFER TO SCHMITT TRISGER LOGIC STRBCLS R3-D1 IN YOUR PRESENT JOB DO YOU FABRICATE MULTICONDUCTOR CABLES R3-D1 IN YOUR PRESENT JOB DO YOU PERFORM ANY TASKS ON S1-D1 IN YOUR PRESENT JOB DO YOU PERFORM ANY TASKS ON S1-D2 DO YOU FABRICATE COAXIAL CABLES S1-D3 DO YOU MALEYEE MIXIE LIGHT DECODER STSTEMS USING BOOLEAN ALGEBRA S1-D3 DO YOU WORK MITH PHOTO TUBES IN YOUR PRESENT JOB S1-D1 DO YOU WORK MITH PHOTO TUBES IN YOUR PRESENT JOB S1-D1 DO YOU WORK MITH PHOTO THERE STITH CHOPPER CIRCUITS S1-D3 DO YOU WEASURE EXCITATION FREQUENCIES S1-D3 DO YOU WEASURE EXCITATION FREQUENCIES					c	40	9	PHANTASTRONS
Control Cont	CIRCUITS R2-02 DO TOU TRACE DATA FLOM THROUGH SCHHITT TRIGGER SCHEMINS DATED LIAGHENS R2-03 DO TOU USE ON REFER TO SCHHITT TRIGGER LOGIC STHBOLS R2-03 DO TOU USE ON REFER TO SCHHITT TRIGGER LOGIC STHBOLS CABLES R3-01 IN TOUR PRESENT JOB DO TOU FABRICATE MOLTICONDUCTOR CABLES R3-01 DO TOU FABRICATE COAXIAL CABLES S1-02 DO TOU FABRICATE COAXIAL CABLES S1-03 DO TOU PRESENT JOB DO TOU PERFORM ANY TASKS ON S1-03 DO TOU MALEYZE MIXIE LIGHT DECODER STSTEMS USING BOOLEAN ALGEBRA S2-01 DO TOU MORK MITH PHOTO TUBES IN TOUR PRESENT JOR S3-01 DO TOU MESSURE EXCITATION FREQUENCIES S3-01 DO TOU MESSURE EXCITATION FREQUENCIES S3-01 DO TOU MESSURE EXCITATION FREQUENCIES					26	1.3	3	The second control of
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TASK GROUP SURMANY PERCENT MEMBERS PLRFORMING

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ANALOG NAVIGATION/TACTICS TRAINING DEVICES SPECIALIST, AFSC 341--ETC(U)
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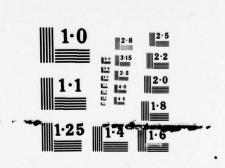






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NATIONAL BUREAU OF STANDARDS MICROCOPY RESOLUTION TEST CHART

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INFORMATION

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11. CONTROLLING OFFICE NAME AND ADDRE	SS	12. REPORT DATE
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		13. NUMBER OF PAGES
14. MONITORING AGENCY NAME & ADDRESS(II	different from Controlling Office)	15. SECURITY CLASS. (of this report)
		UNICL ACCT FIED
		UNCLASSIFIED
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Approved for public release; d	istribution unlimited	
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This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Analog Navigation/Tactics Training Devices Specialist (AFSC 34155). The report gives a detailed listing of the technical tasks and knowledge needed to perform the jobs within the specialty or career ladder.

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This specialty has the following functions:

Inspects, installs, operates, maintains, repairs and modifies analog navigation/tactics/visual training devices and associated electronic equipment. Performs preventive maintenance on analog navigation/tactics training devices. Installs, modifies and repairs analog navigation tactics training devices. Operates analog navigation/tactical training devices. Supervises analog navigation/tactics training devices personnel.

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